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DATE MAILED: 04/14/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,003	10/01/2003	Arthur I. Watson	68.0416	7238
35204 7	590 04/14/2005		EXAM	INER
SCHLUMBERGER RESERVOIR COMPLETIONS			KERSHTEYN, IGOR	
	14910 AIRLINE ROAD P.O. BOX 1590			PAPER NUMBER
ROSHARON,	TX 77583-1590		3745	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/677,003	WATSON, ARTHUR I.		
Office Action Summary	Examiner	Art Unit		
	Igor Kershteyn	3745		
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR RE	PLV IS SET TO EXPIRE 3 M	MONTH(S) FROM		
THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON tatute, cause the application to become Al	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on _				
2a) This action is <b>FINAL</b> . 2b) ⊠	This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the r				
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	). 11, 453 O.G. 213.		
Disposition of Claims				
4) Claim(s) 1-30 is/are pending in the applicat	tion.			
4a) Of the above claim(s) is/are with	drawn from consideration.			
5)⊠ Claim(s) <u>25-30</u> is/are allowed.		•		
6)⊠ Claim(s) <u>1-24</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction ar	nd/or election requirement.			
Application Papers				
9)☐ The specification is objected to by the Exam	niner.			
10)⊠ The drawing(s) filed on <u>01 October 2003</u> is/	are: a)⊠ accepted or b)□ c	objected to by the Examiner.		
Applicant may not request that any objection to	the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the cor	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).		
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for fore</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority docum</li> </ul>		§ 119(a)-(d) or (f).		
2. Certified copies of the priority docum	ents have been received in A	application No		
<ol><li>Copies of the certified copies of the p</li></ol>	oriority documents have been	received in this National Stage		
application from the International Bu	reau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a	list of the certified copies not	received.		
Attachment(s)				
1) Notice of References Cited (PTO-892)	4) Interview 5	Summary (PTO-413)		
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date		
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 10/01/2003.</li> </ol>	5) Notice of I 6) Other:	nformal Patent Application (PTO-152)		
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#### **DETAILED ACTION**

### Claim Objections

Claim 5 is objected to because of the following informalities:

Claim 5 recites the limitation "the central abutment" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4, and 7-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Shallenberg (3,238,879).

In figures 1-8, Shallenberg teaches a pumping system, comprising:
a submersible, centrifugal pump A having a first housing section 30, a second
housing section 30, a unitary intermediate body D to which the first housing section 30
and the second housing section 30 are threadably engaged, a shaft 60,22 extending
through the first housing section 30 and the second housing section 30, a plurality of
impellers 50 and a plurality of diffusers 46 located within the first housing section 30 and
within the second housing section 30, wherein the unitary intermediate body D absorbs

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compressive loading applied to a portion of the plurality of diffusers 46.

**Note.** The language of claim 1 "wherein the unitary intermediate body absorbs compressive loading applied to a portion of the plurality of diffusers" is not given any patentable weight because the apparatus of claim 1 is not distinguished from the prior art in terms of structure rather than function. See MPEP 2114.

Claims 1-3, 5, and 22-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Theron (3,864,057).

In figures 1-6, Theron teaches a pumping system, comprising:
a submersible, centrifugal pump 40 having a first housing section 44.2, a second
housing section 44.1, a unitary intermediate body 46 to which the first housing section
44.1 and the second housing section 44.2 are threadably engaged, a shaft 50 extending
through the first housing section 44.1 and the second housing section 44.2, a plurality of
impellers 10.1, 10.2 and a plurality of diffusers 28.1,28.2 located within the first housing
section 44.1 and within the second housing section 44.2, wherein the unitary
intermediate body 46 absorbs compressive loading applied to a portion of the plurality of
diffusers 28.1,28.2.

**Note.** See the Note above.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shallenberg (3,238,879) in view of Du et al. (6,688,860).

Shallenberg teaches all the claimed subject matter except that he doesn't teach the motor protector coupled to the submersible motor.

Du et al., in figure 1, teaches the pumping system 10, having a submersible motor 14 to drive a submersible pump 12, and a motor protector 16 coupled to the submersible motor 14.

Since Shallenberg and Du et al. are analogous art because they are from the same field of endeavor, that is the submersible pumping system art, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the pumping system of Shallenberg with the motor protector as taught by Du et al. for the purpose of protecting the motor from corrosive environment.

### Allowable Subject Matter

Claims 25-30 are allowed.

#### **Prior Art**

Prior art made of record but not relied upon is considered pertinent to Applicant's disclosure and consist of two patents.

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Conant (1,555,635) is cited to show a pumping system having housing sections, an intermediate body, impellers but fails to teach diffusers.

Bower (3,098,450) is cited to show a pumping system having housing sections, an intermediate body, impellers but fails to teach diffusers.

### **Contact information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Kershteyn whose telephone number is (571)272-4817. The examiner can be reached on Monday-Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look, can be reached on **(571)272-4820**. The fax number is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308 0861.

IK

March 31, 2005

Igor Kershteyn Patent examiner. Art Unit 3745